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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3.0mmx1.0 mm RIGHT ANGLE SMD **CHIP LED LAMP**

Part Number: APA3010SECK

Super Bright Orange

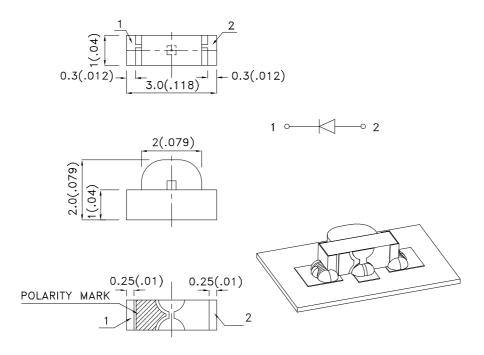
Features

- 3.0mmx1.0mm RIGHT ANGLE SMT LED, 2.0mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACK LIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE: 2000PCS/REEL.
- MOISTURE SENSITIVITY LEVEL: LEVEL 3.
- RoHS COMPLIANT.

Description

The Super Bright Orange device is made with DH InGaAIP (on GaAs substrate) light emitting diode chip.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- 3. Specifications are subject to change without notice.4.The device has a single mounting surface. The device must be mounted according to the specifications.





SPEC NO: DSAA4538 **REV NO: V.9 DATE: JUN/01/2007** PAGE: 1 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: Z.Z.YANG ERP: 1203000618

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
APA3010SECK	Super Bright Orange (InGaAIP)	WATER CLEAR	70	250	120°

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Super Bright Orange	610		nm	IF=20mA	
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Super Bright Orange	29		nm	IF=20mA	
С	Capacitance	Super Bright Orange	15		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Super Bright Orange	2.1	2.5	V	IF=20mA	
lr	Reverse Current	Super Bright Orange		10	uA	VR=5V	

Notes:

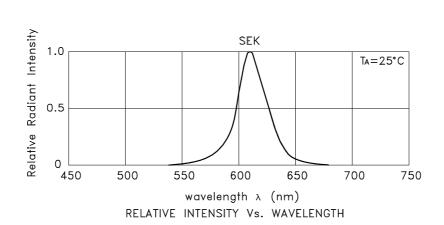
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

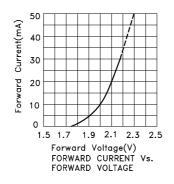
Parameter	Super Bright Orange	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	195	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

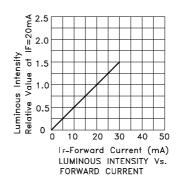
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

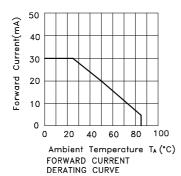
SPEC NO: DSAA4538 **REV NO: V.9** DATE: JUN/01/2007 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Z.Z.YANG ERP: 1203000618

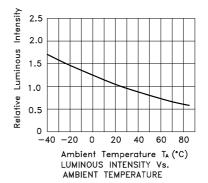


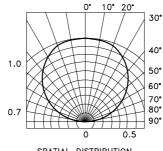
Super Bright Orange APA3010SECK









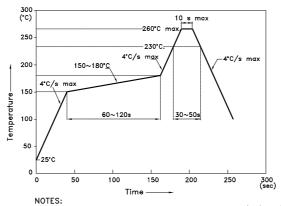


SPATIAL DISTRIBUTION

SPEC NO: DSAA4538 REV NO: V.9 DATE: JUN/01/2007 PAGE: 3 OF 5
APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Z.Z.YANG ERP: 1203000618

APA3010SECK

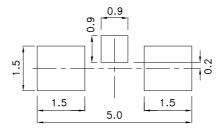
Reflow Soldering Profile For Lead-free SMT Process.



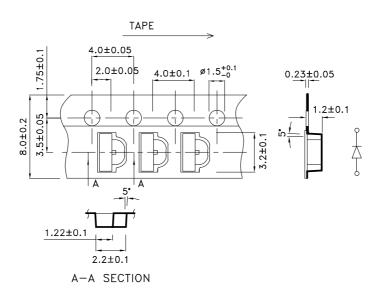
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

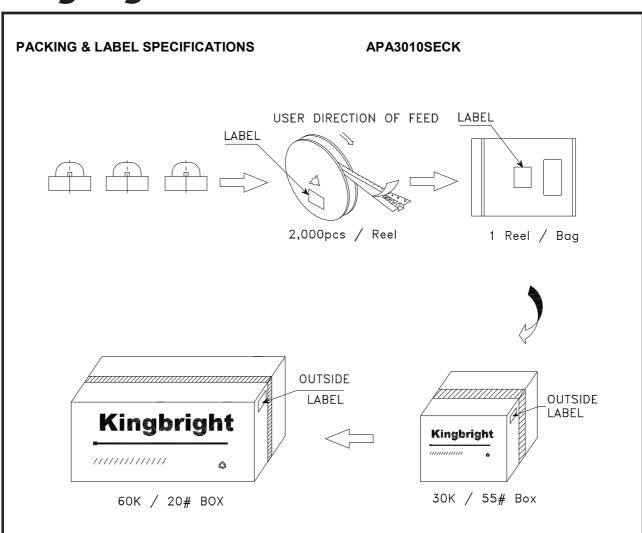


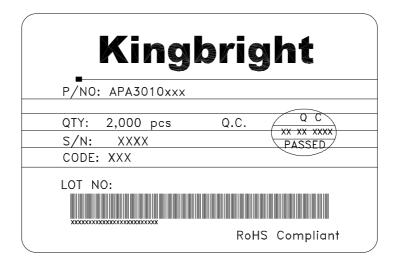
Tape Specifications (Units: mm)



SPEC NO: DSAA4538 APPROVED: WYNEC

REV NO: V.9 CHECKED: Allen Liu DATE: JUN/01/2007 DRAWN: Z.Z.YANG PAGE: 4 OF 5 ERP: 1203000618





SPEC NO: DSAA4538 APPROVED: WYNEC REV NO: V.9 CHECKED: Allen Liu DATE: JUN/01/2007 DRAWN: Z.Z.YANG PAGE: 5 OF 5 ERP: 1203000618